

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P581801

Luminaire Tested: **HCC6W15D010MB-HM60525930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W15D010MB-HM60525930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

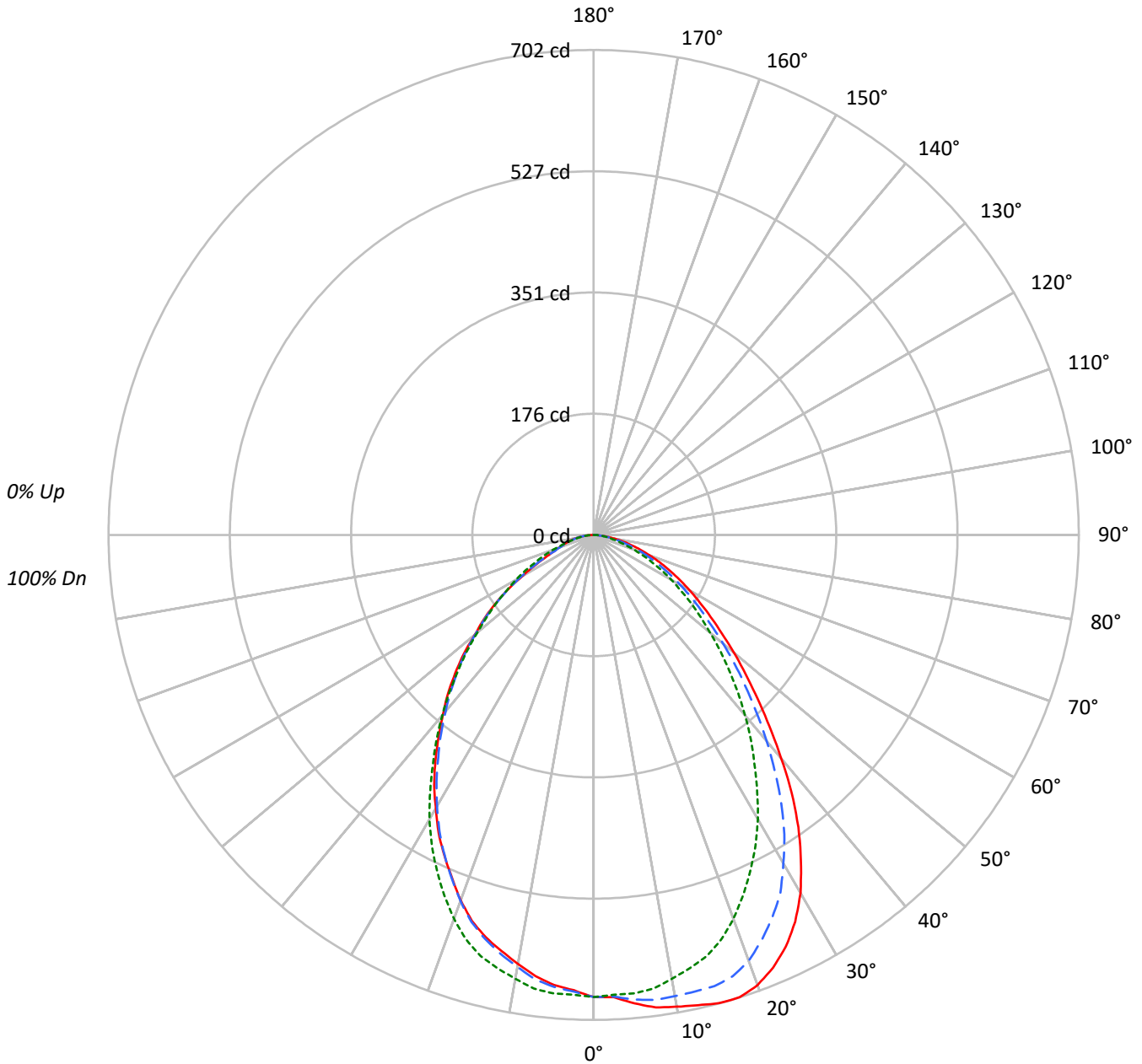
Lumens per Lamp: N/A
Luminaire Lumens: 1309.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 36669 | 36669 | 36669 |
| 5° | 37464 | 36655 | 36000 |
| 10° | 38604 | 36316 | 35097 |
| 15° | 39830 | 35834 | 34223 |
| 20° | 40458 | 34490 | 32833 |
| 25° | 39789 | 32445 | 30951 |
| 30° | 37886 | 30074 | 28916 |
| 35° | 34552 | 27144 | 26722 |
| 40° | 30207 | 24389 | 24260 |
| 45° | 26003 | 21460 | 21964 |
| 50° | 22601 | 18703 | 19087 |
| 55° | 19736 | 16420 | 16602 |
| 60° | 17531 | 14220 | 13025 |
| 65° | 15657 | 11973 | 9949 |
| 70° | 13768 | 9809 | 8351 |
| 75° | 11798 | 7731 | 7943 |
| 80° | 9534 | 6630 | 7766 |
| 85° | 6353 | 5787 | 6919 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.3 | 4.8 |
| 10°-20° | 180.3 | 13.8 |
| 20°-30° | 257.4 | 19.6 |
| 30°-40° | 269.6 | 20.6 |
| 40°-50° | 227.0 | 17.3 |
| 50°-60° | 161.6 | 12.3 |
| 60°-70° | 94.6 | 7.2 |
| 70°-80° | 44.7 | 3.4 |
| 80°-90° | 11.5 | 0.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 501.0 | 38.2 |
| 0°-40° | 770.5 | 58.8 |
| 0°-60° | 1159.1 | 88.5 |
| 0°-90° | 1309.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1309.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 669 | 669 | 669 | 669 | 669 | |
| 5° | 681 | 675 | 666 | 657 | 654 | 65 |
| 15° | 702 | 676 | 631 | 606 | 603 | 198 |
| 25° | 658 | 611 | 536 | 511 | 512 | 301 |
| 35° | 516 | 473 | 406 | 392 | 399 | 321 |
| 45° | 335 | 311 | 277 | 278 | 283 | 260 |
| 55° | 206 | 189 | 172 | 172 | 174 | 186 |
| 65° | 121 | 107 | 92 | 78 | 77 | 120 |
| 75° | 56 | 47 | 36 | 36 | 38 | 60 |
| 85° | 10 | 8 | 9 | 11 | 11 | 13 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 668.9 | 668.9 | 668.9 | 668.9 | 668.9 | 668.9 | 668.9 | 668.9 | 668.9 |
| 2.5° | 669.8 | 669.8 | 668.9 | 667.9 | 666.1 | 663.4 | 661.6 | 659.8 | 659.8 |
| 5° | 680.8 | 679.0 | 675.2 | 670.7 | 666.1 | 660.7 | 656.9 | 654.2 | 654.2 |
| 7.5° | 689.9 | 686.2 | 679.0 | 670.7 | 662.5 | 655.1 | 648.8 | 645.1 | 644.2 |
| 10° | 693.5 | 688.9 | 678.0 | 665.2 | 652.4 | 642.4 | 635.0 | 630.5 | 630.5 |
| 12.5° | 697.2 | 691.7 | 677.1 | 658.8 | 642.4 | 628.7 | 621.3 | 617.7 | 616.8 |
| 15° | 701.8 | 694.4 | 676.1 | 653.3 | 631.4 | 615.9 | 605.9 | 603.0 | 603.0 |
| 17.5° | 701.8 | 692.6 | 669.8 | 641.5 | 614.0 | 596.7 | 587.6 | 584.8 | 585.7 |
| 20° | 693.5 | 683.5 | 656.0 | 621.3 | 591.2 | 572.9 | 563.8 | 561.9 | 562.8 |
| 22.5° | 678.0 | 666.1 | 635.0 | 597.6 | 564.7 | 545.5 | 537.3 | 537.3 | 536.4 |
| 25° | 657.8 | 645.1 | 611.3 | 572.0 | 536.4 | 517.2 | 510.8 | 511.7 | 511.7 |
| 27.5° | 631.4 | 618.6 | 584.8 | 542.8 | 507.1 | 487.9 | 483.4 | 485.2 | 486.1 |
| 30° | 598.5 | 584.8 | 549.1 | 508.0 | 475.1 | 455.9 | 453.2 | 455.9 | 456.8 |
| 32.5° | 558.3 | 548.2 | 513.5 | 471.5 | 440.4 | 423.9 | 423.0 | 425.9 | 429.5 |
| 35° | 516.3 | 505.3 | 473.3 | 434.9 | 405.6 | 392.0 | 392.0 | 396.6 | 399.3 |
| 37.5° | 470.6 | 459.6 | 430.4 | 398.4 | 373.8 | 360.9 | 362.7 | 367.3 | 368.2 |
| 40° | 422.1 | 413.9 | 389.3 | 361.8 | 340.8 | 330.7 | 333.5 | 338.1 | 339.0 |
| 42.5° | 376.5 | 369.1 | 349.0 | 324.4 | 308.8 | 301.6 | 305.2 | 310.6 | 312.5 |
| 45° | 335.4 | 327.1 | 310.6 | 289.7 | 276.8 | 273.2 | 277.7 | 281.5 | 283.3 |
| 47.5° | 297.8 | 290.6 | 276.8 | 257.6 | 248.6 | 246.7 | 251.3 | 253.1 | 254.9 |
| 50° | 265.0 | 257.6 | 244.0 | 226.7 | 219.3 | 219.3 | 222.9 | 224.7 | 223.8 |
| 52.5° | 233.0 | 226.7 | 213.8 | 199.2 | 194.7 | 194.7 | 197.4 | 198.3 | 200.1 |
| 55° | 206.5 | 200.1 | 189.1 | 175.5 | 171.8 | 169.9 | 171.8 | 171.8 | 173.7 |
| 57.5° | 181.8 | 176.4 | 166.3 | 153.6 | 148.9 | 147.1 | 146.2 | 145.3 | 147.1 |
| 60° | 159.9 | 155.4 | 144.4 | 133.4 | 129.7 | 125.2 | 121.6 | 117.9 | 118.8 |
| 62.5° | 139.8 | 135.2 | 125.2 | 114.2 | 110.5 | 104.2 | 99.7 | 95.0 | 96.8 |
| 65° | 120.7 | 116.0 | 106.9 | 97.7 | 92.3 | 85.0 | 77.6 | 74.9 | 76.7 |
| 67.5° | 103.3 | 99.7 | 90.5 | 81.4 | 76.7 | 68.6 | 61.2 | 61.2 | 62.1 |
| 70° | 85.9 | 82.3 | 74.9 | 66.7 | 61.2 | 53.9 | 51.2 | 52.1 | 52.1 |
| 72.5° | 70.4 | 67.6 | 60.3 | 53.0 | 47.6 | 42.9 | 42.9 | 43.8 | 44.7 |
| 75° | 55.7 | 53.9 | 46.6 | 40.2 | 36.5 | 33.8 | 35.6 | 36.5 | 37.5 |
| 77.5° | 42.9 | 40.2 | 34.7 | 30.2 | 27.5 | 28.4 | 30.2 | 31.1 | 32.0 |
| 80° | 30.2 | 29.3 | 24.6 | 21.9 | 21.0 | 21.9 | 23.7 | 24.6 | 24.6 |
| 82.5° | 19.2 | 18.3 | 15.5 | 14.6 | 14.6 | 15.5 | 17.4 | 17.4 | 17.4 |
| 85° | 10.1 | 9.2 | 8.2 | 8.2 | 9.2 | 10.1 | 11.0 | 11.0 | 11.0 |
| 87.5° | 3.6 | 2.7 | 3.6 | 3.6 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



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— 0°-180° - - 45°-225° - - - - 90°-270°

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